

THE TECH

Boston, Massachusetts.

April 2, 1896.

Volume XV.

Number 23.

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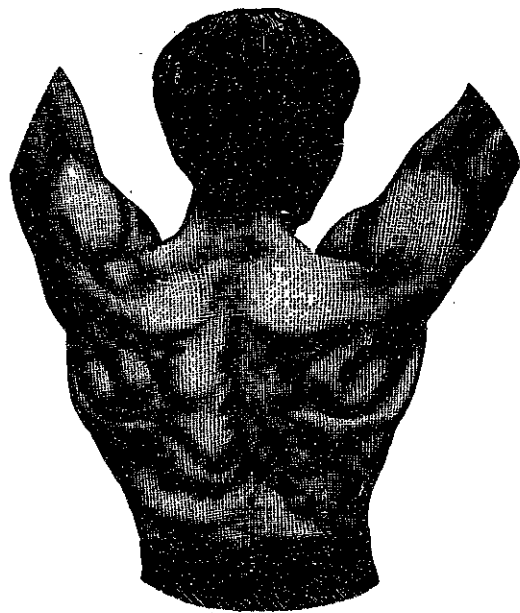
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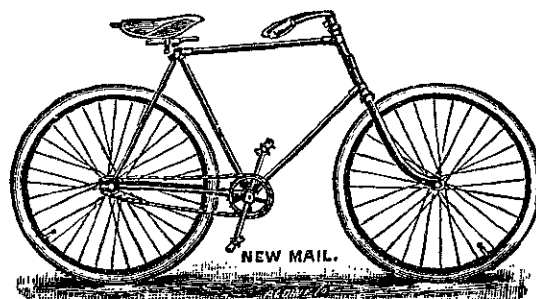
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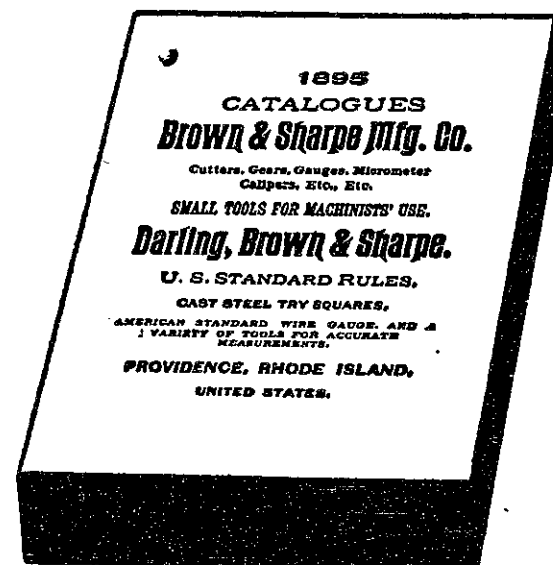
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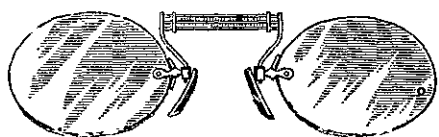
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THE TECH

VOL. XV.

BOSTON, APRIL 2, 1896.

NO. 23

THE TECH

Published every Thursday, during the college year, by students of the Massachusetts Institute of Technology.

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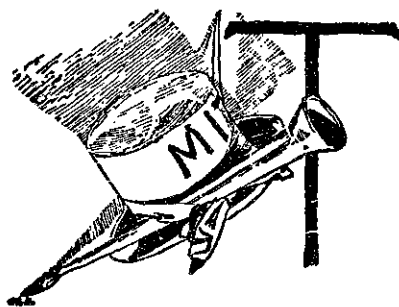
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For the benefit of students THE TECH will be pleased to answer all questions and obtain all possible information pertaining to any department of the College.

Contributions are requested from all undergraduates, alumni, and officers of instruction. No anonymous manuscript can be accepted.

During the remainder of the college year the office of THE TECH, Room 30, Rogers Building, will be open on Thursdays from 12 M. to 1.30 P. M.

Entered in Post Office, Boston, Mass., as Second Class Matter.



TECHNOLOGY'S round of spring festivities is at hand, and Junior Week this year promises more than usual attractions. The Walker Club plays will

form a fitting climax to the regular Spring Concert and the Junior Promenade, which latter in the able hands of Ninety-seven bids fair to be of unusual brilliancy. We trust that the veriest grind will grant himself a little relaxation and that each will take as large a share as possible in the too rare social affairs of our college life.

WE can but feel encouraged over the showing made by Technology men at our Annual Scratch Games. The Boston papers hinted in their morning issue that Grosvenor might get a place in his event, and in him

was Technology's only hope. As a matter of fact two Tech. men ran the 35-yard dash, equaling the world's record and taking first and second places in the novice, while Grosvenor, who was kindly set down for a place in the finals, beat that record by a fifth of a second and won the 35-yard open. Stebbens, '97, won the potato race, while the prizes for the 40-yard hurdle race were captured by Curtis and Lord, two old Tech. men. We trust Institute men appreciate the good work of the team and are prepared to give their hearty support to Captain Cummings and his men in every possible way.

ON Monday, March 23d, the M. I. T. A. C., held a meeting in Huntington Hall. Captain Cummings of the track team laid before the club reasons why Technology should be represented at the U. of P. meet. The students, of whom there were a goodly number present, voted to send to this meet a team of four men, and to pay the expenses by a subscription. One third the amount needed was raised in five minutes. The spirit of all present was exceedingly gratifying to those athletes who have worked hard to maintain Technology's position in Eastern Athletics and augurs well for the spring meets. We feel sure that the men sent by M. I. T. will return with flying colors.

A COLLEGE should be not only a place for training young students, but also a center of independent thought and public instruction. Such a part the Institute fulfills in a high degree. That most august establishment, the Lowell Institute, listens to distinguished scientific men in Huntington Hall.

The Lowell Free Courses furnish, yearly, instruction to some twelve hundred persons in Mathematics, Chemistry, Literature, Engineering, Architecture, and Political Science. The Society of Arts holds bi-weekly meetings at which new developments in Science and Technology are discussed; and almost any evening the buildings are seen to be lighted up for the benefit of sundry learned societies. Altogether Rogers holds a unique position; by night and by day it forms a busy center for the investigation and dissemination of scientific truth.

MANY complaints about the condition of the alley leading to the Engineering building have been heard. Although the alley is a private way, its use daily by so many students makes its condition a matter of greater interest to us than the public streets leading to the Architectural and Engineering departments. The consideration which the Institute management has always shown for the comfort of its students should lead to a more careful supervision of this much-traveled thoroughfare. For days at a time the path has been so clogged with snow and slush that rubber boots were a prime necessity.

DURING the last week or so there has been some discussion as to the division of the gymnasium between the Track squad and the gymnasium class. Once in a while the class may outnumber the Track Team candidates. Now shall these fifteen or sixteen men who are training to represent the Institute against other colleges give up this only place of practice to men who are working simply for their own benefit? The advantages for in-door running at Technology are meager enough.

THE engagement is announced of Miss Isabelle Luther of Beacon Street to Dr. William H. Walker, Professor of Chemistry at the Institute.

COMMUNICATIONS.

The Editors do not hold themselves responsible for opinions expressed by correspondents.

TO THE EDITORS OF THE TECH:—

The efforts which several Technology organizations have made, and are now making, to reduce their indebtedness to Boston firms, are so thoroughly in accord with the spirit upon which the Institute Committee was founded, and so wholly consistent with the principles which it has attempted to maintain in the college, that it cannot longer withhold its open approval and must publicly announce its appreciation. It is impossible to estimate, even aside from all moral considerations, the immense practical advantage, and the important relation to the reputation of our college and to the success of our student enterprises, of true financial integrity, whether such honesty be practiced by the college man as an individual, or by his organizations.

To the officers and manager of the Baseball Association, and to Mr. Leighton in particular, the Institute Committee extends its heartiest approval in the work which they so unselfishly undertook,—to raise the debt with which their Association had been burdened for two years.

Now that the Deutscher Verein and L'Avenir are making every effort to secure funds for the payment of the embarrassing debts incurred in the production of the Plays of last Junior week, the committee urges that every man, who can in any way find it possible, shall support this worthy cause. The series of lectures which has been arranged is entertaining and instructive; and constitutes a method of obtaining money which is most commendable.

To the Institute Committee so high a standard of financial responsibility is indeed gratifying; and it is at once, we believe, a harbinger of better, truer success in all of our student undertakings than has ever before been attained.

CHARLES GILMAN HYDE,
for the Institute Committee.

Calendar.

Thursday, April 2d: Tickets for "Technique" '97, on sale at Maclachlan's.

Thursday, April 2d: Meeting of Geological Society, in Room 14, at 4.15.

Saturday, April 4th: Meeting of Y. M. C. A.

JUNIOR WEEK.

Monday, April 6th: Lecture by Prof. Frank Vogel on Goethe's "Hermann and Dorothea" and Longfellow's "Evangeline" and "Courtship of Miles Standish."

Tuesday, April 7th: Meeting of Biological Society.

Wednesday, April 8th: Annual Concert of Glee, Banjo, and Mandolin Club.

Thursday, April 9th: Junior Promenade.

Friday, April 10th: Plays of the Walker Club. "Mr. Jones, Instructor," and "The X-ray Machine."

Saturday, April 11th: Meeting of Y. M. C. A.

Physical Exercises and their Beneficial Influence.

[A short synopsis of the German System of Gymnastics as conducted at the Technology Gymnasium by H. J. Boos.]

II.

EXERCISES of strength may require more or less skill, so much so that the limits of the two kinds of exercises meet. In cases of doubt we would have to decide whether it be an exercise of strength or skill according to which is most required in performing the exercise.

In exercises of mere skill the participating muscles are required to perform very little work in proportion to what they are capable of performing, and no muscle is ever required to do more than it can easily perform. These exercises, on the other hand, may change to exercises of strength if they are often and successively repeated. For in this case those muscles which are mostly exerted gradually tire out; they then become reanimated, but are less capable of exertion, so much so that what is an easy exercise to the fresh muscles requires extreme effort on the part of the muscles which are tired out. The simplest calisthenic exercise will, if frequently repeated, become a real exercise of strength.

Another circumstance renders it difficult to decide between exercises of strength and skill,

and that is the amount of practice the performer has had. One who has had practice has learned to estimate with some certainty the amount of strength required for each exercise, and therefore uses the smallest amount of strength needed. One who has had no practice, and who is awkward, is uncertain in his estimation. He therefore, to go sure, uses too much strength—in many cases as much again as is necessary. His muscles unnecessarily contract convulsively, and he is "stiff"; thus, an exercise of mere skill becomes to him one that requires great strength and exertion. He who has had practice saves strength.

With the exercises of quickness all this is different. It lies in the nature of the thing, that the separate motions, which, when often repeated, compose an exercise of quickness, cannot require the highest exertion of the single muscles, for if they did, the muscles would soon relax, and thus the exercise would terminate naturally, as we have seen above of the exercises of strength.

If, however, in exercises of quickness, great work can be performed without causing a relaxation of the muscles, there must be some reasons for it, and they are as follows:—

Firstly.—In all exercises of quickness the work required to be done is distributed over a complex of the largest and most powerful muscles, especially over those of the legs, which alone comprise one half of the whole muscle power of the human body. All exercises of strength and skill require a concentrated work of the muscles, while with the exercises of quickness it is a distributed work of the muscles that is required.

Secondly.—We must consider that in exercises of quickness and endurance the working muscles are not continually contracted, but are constantly changing from a state of exertion to one of relaxation. This circumstance greatly aids the circulation of the blood through the working muscles, and thus guards against the immoderate accumulation of waste

matter in the working muscles. This waste matter is continually removed by a more rapid circulation of the blood.

Thirdly.—The difference in the work of the nerves in exercises of quickness and those of strength and skill is of great importance. In the latter not only the muscles, but also the nervous organs of motion, the cells of the nerves and the nerves themselves frequently perform a great deal of labor, and, like the muscles, occasionally succumb to the checking influence of fatigue. In all exercises of quickness the work of the nerves is of small account. To recapitulate: In all exercises of strength and skill the distinct work of certain muscles is predominant; in exercises of quickness the co-operation of the greatest possible number of muscles predominates.

(To be continued.)

The M. I. T. Society of New York.

THE First Annual Meeting of the Society was held at the Arena on Saturday evening, February 8th. The guests of the evening were President Walker, Ex-Mayor Abram S. Hewitt, of New York, and Col. George E. Waring, Jr., Commissioner. At the business meeting, which preceded the dinner, the Secretary announced the election of twenty new members, making a membership of ninety-three. The Executive Committee for the ensuing year are: Ed. D. Brown, '90, Harvey S. Chase, '83, Frank A. Pickernell, '85, George L. Heins, '82, and Alex. Rice McKim, '85, Secretary-Treasurer.

After the dinner the meeting was called to order by Mr. George L. Heins, '82, who introduced Professor Horace B. Gale, '83, as Toastmaster for the evening. The exercises were then carried on as follows:—

Mr. Gale:

Mr. Chairman and gentlemen: The Toastmaster feels that he is indeed fortunate to be invited to take the helm at this auspicious moment, when everybody is happy, after all the hard work has been done, after our honored

Chairman and his able colleagues on the Executive Committee have successfully launched the ship of our society, have painted a good name on its prow, stocked it with provisions for the voyage, made up a good passenger list, and piloted us through the dangerous reefs of organization into smooth sailing,—to take the helm now is surely an easy and a pleasant task. Easy, because to please a man when he is already happy is one of the simplest things in the world. And your smiles are proof that after the good dinner we have enjoyed, and the assured success of our new society,—which the number here present at our First Annual Meeting puts beyond question,—you are all so happy that to displease you would be next to impossible.

My task is pleasant because your faces express not only satisfaction with the good things which you have enjoyed, but pleasurable anticipation of the feast that is to come. We are pleased in anticipation because the men who are to speak to us are not strangers. We know them; some of their voices we have listened to with pleasure, and we know that all of them are our friends, in whose words we can have confidence.

While sitting here discussing old times with classmates, I suppose that each of us has become convinced that his own class at the Institute was a particularly good and glorious one to belong to. And so the honorable Chairman of the Committee and myself, as members of the classes of '82 and '83, have concluded that in many respects we were peculiarly fortunate.

We remember with affection the presence in the old halls of the tall but slightly stooping form and genial and kindly face of the venerable founder and first President of the Institute, William Barton Rogers. When his advancing years compelled him to lay aside his office, we were privileged to welcome the new President, who has since so well controlled the destinies of our Alma Mater.

The men who were students at that time enjoyed the privilege of a more intimate acquaintance with the President than is possible now, when the number of students and the number and variety of the interests demanding the President's time and attention are many fold greater. We knew him not only as the President but in the classroom, where we listened with attention to his lectures in Political Economy, and, between times, speculated wildly as to where he stood on the tariff question.

We had heard of him, of course, before he came to the Institute. From what we had heard, we had been led to expect great things from his administration. And now, looking back over what he has accomplished in a dozen years, it is simply inadequate to say that none of our expectations have been disappointed.

We, for instance, remember the Laboratory of Mechanical Engineering as a small dark place under the front steps of the single building, which then contained all the departments of the Institute. There in this Laboratory we used to toil over a small Corliss engine, which constituted the apparatus of instruction. Now when we go back and see the Mechanical Laboratories occupying two floors of a large, handsome new building, filled with

machinery of all kinds, with other departments expanded in like proportion, with new departments and courses of instruction such as Electrical, Chemical, and Sanitary Engineering, and Naval Architecture, and a roll of students that crowds even the enlarged accommodations to the utmost, we feel a constantly increasing pride in the fact that we are alumni of this great institution, and a still firmer conviction that the man whom we welcomed as the new President has proved to be the right man in the right place, which place we all hope he may long continue to fill.

General Walker needs no introduction to any man here. We all know him, and shall enjoy hearing from him the story of the progress of the Institute. And I therefore ask him now to speak to us on a subject which he and we also, as a body of alumni, have most at heart, "The Massachusetts Institute of Technology." I am proud to present to you President Walker.

President Walker:—

Mr. Chairman and gentlemen of the M. I. T. Society of New York: It gives me great pleasure to be with you this evening and to bring you the best wishes and greetings of the Faculty. Perhaps it has never occurred to you, gentlemen, that few after-dinner speakers have quite so hard a part to perform as has the president of a college addressing a gathering of alumni. The reason for this difficulty, about which on first statement you may be sceptical, is found in the fact that among his auditors are men who represent almost the last degree of knowledge, and others who represent almost the last degree of ignorance, respecting the situation at the college. Some are graduates of only one or two or three years' standing, knowing the latest change in the curriculum, the latest gossip of the campus, the latest appointment to the Faculty, the latest addition to the buildings, the latest grind on the "Prex." Others there are who remember the college as it was ten, twelve, or fifteen years before; while others still represent the antediluvian period. It might be supposed that this difficulty would be found at its height in the case of a president of a technical and scientific school, which, by the nature of the case, is bound to keep up with the age, and to bring into its studies and exercises the latest results of discovery and invention. As a matter of fact, however, this is not so. The president of such a school has really less to tell, which the members of the most heterogeneous assemblage of alumni would find it difficult to understand and to appreciate, than has the president of one of the old-fashioned institutions. The Institute of Technology has changed far less since the graduation of the oldest alumnus present than have, in the same period, most of the classical colleges. We have not gone to them, they have come to us. These institutions all through the last fifteen years have been throwing overboard studies and exercises which they once declared to be absolutely essential to sound learning, and taking on studies and exercises which they denounced as mean and mercenary and unfit to form a part of any scheme of liberal education, but which they are now, in great haste, copying from the

scientific and technical schools. The Institute has, meanwhile, developed almost entirely on the lines so wisely laid down at its inception. Even a "Tech." man who was at the school in the very first days,—days of obscurity and extreme poverty, when the few small classes met in "a small, upper chamber,"—might feel himself absolutely at home to-day in the Institute, so perfectly has the spirit of the olden time been preserved, so fully were the best scientific methods of this day anticipated by the illustrious founder of the Institute, Wm. Barton Rogers.

The Institute, as you know, gentlemen, was founded on several fundamental and far-reaching beliefs. First, a belief in the essential manliness of young men; a belief that, if they are properly appealed to, if they have presented to them subjects deserving of their attention and best efforts, they will respond in the spirit, not of trying to find how little they can do and how poorly they will be allowed to do it, but how much they can do and how well they can do it.

Secondly, a belief that the study of scientific principles, directed straight upon practice of a worthy profession, constituted the best kind of education,—that education that leads to the most fortunate development of intellect and character, of mind and manhood, in addition to all its merits as a preparation for professional success.

Thirdly, a belief that scientific principles acquired in the recitation and lecture room should be constantly applied in the field and laboratory work. It was this conviction which at the outset dictated the foundation of the Laboratory of General Chemistry and the Laboratory of General Physics, of Applied Mechanics, of Metallurgy, of Steam, and of Hydraulic and Mill Engineering.

Fourthly, a belief that, in addition to scientific and technical studies and exercises which tend to make men resolute, exact and strong, there should be given, in every such school, at least a moderate amount of those philosophical and culture studies and exercises which tend to make men also broad and liberal.

At present the only thing in which our prospect is not ideal is finance. But I am proud to say—twice proud, once for the school and not less for my native state—that our appeal to the Legislature of Massachusetts, last winter, met with a response whose promptness and cordiality showed how deeply this School of Industry and Science has sunk into the affections of the people of Massachusetts. With absolute unanimity the Legislature gave even more than we asked for, so that for six years to come we are at least secure of what we have done.

Toastmaster Gale:—

While President Walker was instructing us in Political Economy at the Institute, indelibly impressing on our youthful minds sound principles of finance and legislation, another of our distinguished guests was upholding the same principles of honest finance and sound commercial policy in the national halls of legislation. The Honorable Abram Stevens Hewitt needs no introduction to any American audience. His record as a statesman and philanthropist is known wherever the flag of our country is known and honored.

As residents of New York City, we know and honor him for his clean and patriotic administration of our municipal affairs when Mayor of the city.

As citizens of the United States, we know and honor him for his work in Congress, and for the substantial assistance rendered by him to the Government during the civil war, when his practical knowledge of iron manufacture enabled him to supply our country with material for the manufacture of guns.

As engineers, we know and honor him for his classical treatises upon iron and steel, and for his foresight in introducing into this country the open-hearth steel process, whose great importance and value he was one of the first to realize.

Finally, as alumni of The Massachusetts Institute of Technology, as men interested in the promotion of technical education, we know and honor him for his work in that direction,—for that noble memorial, than which there is nothing of which New Yorkers have more reason to be proud,—The Cooper Union for the advancement of Science and Art, whose inception and management have been so wisely formed and guided by his judgment.

I have the honor to present to you, gentlemen, the statesman, the engineer, the philanthropist, and the pioneer in technical education, Honorable Abram S. Hewitt.

Mr. Hewitt told of his connection with Cooper Union, and paid a tribute to Cooper. Cooper had been a poor boy and worked his way up from the bench. He had struggled all his life to accumulate funds with which to found and endow the Union. The Union was to be a place where the young of both sexes were to be taught practical trades and the young men were to be trained to be intelligent mechanics, so they could carry out the instructions of men who had received a technical education, as given at the Massachusetts Institute of Technology.

He also spoke of an evening that he had passed with Mr. Cooper and President Rogers during which they had discussed and compared their plans for the Union and the Institute.

Toastmaster Gale:—

Last among the distinguished guests who have honored us with their presence, the toastmaster reaches the name of a gentleman who has furnished us this evening with an illustration of his family motto, which, translated is, "He who comes slowly, comes surely." Knowing this motto the toastmaster felt no anxiety on account of his absence during the early part of the evening; knowing, as all the people of New York are learning to know, that, although he may be slow in arriving, he "always gets there."

New Yorkers believe he is a man they can depend upon to accomplish the difficult task they have set before him. We have seen our streets cleaned, we have seen the snow heaped up and spirited away quicker than we supposed it could be done, and we believe that in good time we shall have not only clean streets, but a clean harbor, and that all that is unclean in our city will be gathered and cast into the fire which is never quenched, to come out

purified and spotless as the white winged "angles" who now gather it in.

We, as alumni of the Institute, recognize and respect in our distinguished guest the successful practical engineer, to become which was the goal of our ambition when we started in life with our diplomas under our arms. We believe that he, as a successful practical man, recognizes, on his part, the value of the training given by the technical schools as a preparation for the work of engineering. I will, therefore, ask Colonel Waring if he will kindly give us his opinion of "Technical training as a preparation for practical work." I have the honor to introduce to you, gentlemen, Colonel George E. Waring, Jr.

Colonel Waring spoke of the system of sewerage for Memphis, the large intercepting sewer for Buffalo, the plan for the system for Jacksonville, Fla., and the Department of Street Cleaning of New York. He showed clearly the advantage of having men with a technical training, men who were not afraid of hard work. His success had been mainly due to the employment of such men, especially on the last work, the Street Cleaning Department of New York, where he had employed six Institute men who were doing most excellent work.

The Secretary read the following letter of regret from President T. M. Drown, of Lehigh, University:—

ALEX. RICE McKIM, ESQ.,

Secretary the M. I. T. Society of New York,

DEAR SIR: I have delayed answering your letter of the 12th, hoping that I might discover some way by which I might attend your meeting in New York on the eighth of February. But a previous engagement, which will not give way, prevents me, much to my regret, from accepting your kind invitation. I owe so much to the Institute of Technology that I should have had genuine pleasure in expressing, at your meeting, my indebtedness to that grand school which trains not only students, but teachers as well. A teacher would not be worthy of the name who did not derive inspiration from the opportunities offered him at the Institute, with its unrivaled facilities and equipment for instruction, combined with its picked and earnest students, its learned and zealous faculty, and the master who presides over its destinies, General Francis A. Walker.

The ten years I spent at the Institute were the most eventful in my teaching life, and they will always remain a delightful recollection.

With my sincere wishes for the success of your new organization, I am most cordially yours,

T. M. DROWN.

Toastmaster Gale:—

Mr. George L. Heins, '82, Architect, will favor us with a few ideas on the needs of Architecture.

Mr. Heins advocated the establishment in New York of an atelier to be conducted by the alumni in architecture. He felt sure of the need of such an adjunct, to give those who were preparing for the architectural course, and those just graduated, study and practice in the art of design in addition to what could be had in an all too short four years at the Institute, where the larger part of the students' attention was of necessity devoted to the scientific side of professional study. This side could be

perfected only with such an organization as that existing in a well-equipped school, and it seemed to the speaker wiser that this should be so, even if the artistic branches should more or less suffer temporary neglect.

To meet the resultant lack of artistic practice, the speaker would advocate the establishment as soon as possible in all the larger cities of such ateliers controlled by the faculty. He was sure that there would be a willingness on the part of the older graduates to do their share of such work. The expense would be trifling. In fact, other ateliers on similar lines started in New York within a very few years, are self-supporting.

Toastmaster Gale:—

Mr. Pickernell was to have spoken on the M. I. T. Society of New York. As he has been called out of town, Professor Charles R. Richards has consented to speak in his place. They are both of those members of the class of '85 among whom the idea of forming a Society in New York originated.

Professor Richards:—

Mr. Toastmaster and gentlemen: My keenest pleasure in the anticipation of this evening has been all along in the thought that I had absolutely nothing to do but to come here and meet a lot of old friends, join once more in the Institute cheer, and listen to the distinguished guests of the evening; simply to sit still and see the other fellow do all the work. But along with the Roman Punch comes the honorable Secretary with the statement that Mr. Pickernell has not yet arrived, that he might not reach here at all, and in that case that I must respond in his place.

I have always felt the deepest and warmest regard for Mr. Pickernell, but I assure you that I have never looked for a sight of his manly figure so anxiously as I have through the last hour and a half.

There is not a very long story to tell in regard to the work of the organization of the Society. I think the first definite idea of such an undertaking came in a request from Mr. McKim about a year ago to meet him and several other men of '85 to discuss the feasibility of such a scheme. We met, six of us in all, in the classic precincts of the Black Cat. I think the only thing we agreed upon at that time was the idea that a society of Tech. men would be a grand good thing, and that we were willing to make the effort to bring about such a society. After this came an interval of some weeks, in which the plan of organization and the question of constitution were studied.

The next time we met was at the abode of Madame Da Preto, and there, between the soup and the macaroni, we discussed the subtle questions of resident and non-resident membership, duties of officers, and, most momentous of all, the annual dues, and we drafted a scheme for a constitution.

After this came a call for the meeting of last June, the result of which the most of you are familiar with. Tonight the infant that there was brought to birth has thrown aside its swaddling cloths. It certainly looks very much alive at the present moment and guarantees a vigorous and healthy existence.

The story of our organization is a very brief one, but that of our future, I trust, may be long indeed, and one filled with good fellowship, loyalty to our Alma Mater, and prosperity as a Society.

Mr. Hollon C. Spaulding, '87, made one of his characteristic witty speeches on "The Roentgen Rays," and Mr. Harvey S. Chase, '83, then read a supposed letter from Dr. Chauncey M. Depew, filled with stories, which ended with the following poem:—

M. I. T.

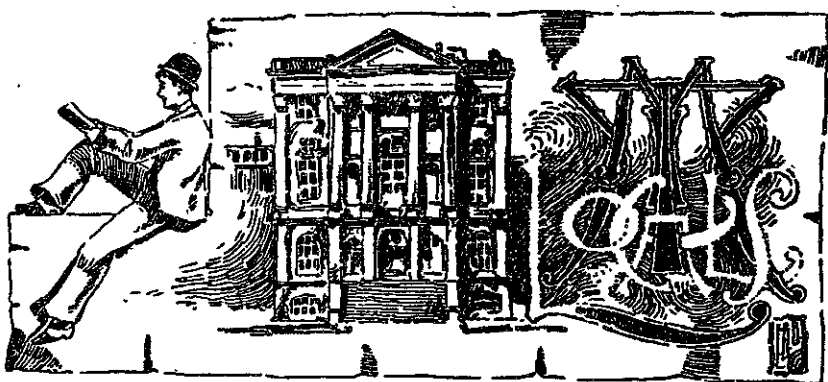
There are buildings in the city
Where the waters used to be,
There are shops and laboratories,—
"Chemic," Electricity,—
Drawing-rooms and lofty hallways,
Stairs, and stairs, and now, say we,
Here's a bumper,
Let us "hump her,"
For the M. I. T.

There is Runkle and there's Richards,
There are Niles and Peabody,
There are Lanza, Wells, and Holman,
There are Bates and C. R. C.,
There is Swain and there is Sedgwick,
And we toast them heartily;
But our Walker,—
He's a "corker,"
For the M. I. T.

Many days and more are passing
Since the days of '83;
Many men and more are massing
To her rising victory;
Newer halls are built and building;
In the future we may see
Twenty acres,
All partakers,
In the M. I. T.

Looking down the coming ages,
What a daisy faculty
On the catalogue's great pages,
In another century!
What a list of deeds accomplished,
What alumni there will be,
When we house and
Teach ten thousand
At the M. I. T.

So it goes, and so there lingers
In the hearts of you and me
Many treasured recollections,
Festive times in memory,—
Fun in "English," fun with Freshmen,
Fun in getting a Degree,—
'And we fête her—
Alma Mater—
'Rah for M. I. T.!



The sale of seats for the Walker Club plays has met with great success.

Extensive alteration in the organic chemical laboratories are to be made next summer.

Professor Verrell of Yale is delivering the last Lowell Institute course of lectures, on Molluscs.

The class in Industrial Chemistry visited the Standard Sugar Refinery, South Boston, Friday, March 27th.

The Andover Club held a dinner at Vercelli's on Saturday, March 21st. About fifteen men were present.

Mr. Crampton and several of the advanced students of Zoölogy made a trip to the rock-pools of Nahant last Thursday.

President Walker spoke as a remonstrant in the hearing recently held relative to the erection of a statue to General Butler.

The students in the laboratory of applied mechanics have finished the series of tests of trusses, the last one having been broken on March 26th.

The Sophomore nine went out for its first practice last Thursday. The Manager of the team hopes to arrange games with class nines from several of the larger colleges.

Mr. Clark, who addressed the Society of Arts last week on the Properties of Sand and their effect on Filtration, was at one time a special student in chemistry at the Institute.

The class of '98 held a meeting last Thursday in 26 Rogers. The sum of seventy-five

dollars was appropriated for the baseball team, and Mr. Grosvenor was elected a director of the Co-Operative Society.

The Poster Exhibition in Rogers' corridor is attracting the usual attention and admiration. We predict that the day is not far distant when even class meetings will be announced by artistic posters.

The examination held March 25th for the selection of a color guard for the Freshman Battalion resulted as follows: Sergeant Copp, Co. C, Color Sergeant; Corporals Lathrop and Bailey, Co. B, Color Corporals.

Captain Bigelow (at lecture in Military Science), exhibiting a very realistic picture of an army wagon on a bad road, with the drivers attempting to urge on the mules: "The picture doesn't show what they are saying, but perhaps you can imagine that."

On Wednesday Mr. Spahr's and Mr. Chamberlain's designs for the Beaux Arts competition will be sent to New York. The drawing room where the work has been going on has been much frequented by visitors to the Institute. President Schurmann of Cornell was a visitor last week.

Tickets, at one dollar each, good for one copy of "Technique" '97, when issued, are now on sale at Maclachlan's. Orders for "Technique" to be sent by mail should be addressed to Thurlow Washburn, Cage, and will receive prompt attention if accompanied by cash. The price of a copy mailed to any address is one dollar and a half.

It is probable that a test of the power house of the West End Street Railway Co., at Sullivan Square, Charlestown, will be made by the Seniors of Courses II., VI., X., and XIII. The test will include the boilers, economisers, engines, and dynamos, and will constitute a part of the regular work of the engineering laboratories. On account of the time allowed for outside tests, these laboratories will close about April 7th.

On Saturday evening, March 21st, the Chicago Club gathered about the festive board for the second supper of the year. From the first scrutiny of Dreyfus's menu to the resounding echo of the last toast all were vying with each other in repartee and good humor. The smoke talks were: "Chicago of the Future," F. W. Everett; "University of Chicago," Van R. Lansingh; "Boston *versus* Chicago," M. Sturm; "Technology's reputation in the West," R. E. Bakenhus.

About the middle or latter part of April the Fourth-Year members of Courses II., VI., X., XIII., will make a twenty-four hour test of the twenty million gallon pumping plant at Chestnut Hill. The men will be divided into three shifts, each working eight hours. Determinations will be made of the duty of the engine, coal consumption per water horse power and steam horse power, efficiency of boilers, friction of engine, pump valves and piping, and analyses of the flue gases, thus giving the men a practical application of steam and hydraulic testing.

On Thursday, March 26th, the class of '96 held a business meeting. Mr. S. D. Gage was elected to the Institute Committee in place of Mr. Poppenhusen. Mr. C. W. Perley was elected a member of the Portfolio Committee. The question of having a Senior Promenade was raised. The voice of the thirty-eight men present was, not to make it a class affair, but to place the matter in the hands of those interested and for them to bear the honors and expense. The meeting closed with an appeal to the class on the part of President Hyde, for all members of the class to loyally support the efforts of those who are anxious that '96 shall not be the first class in twelve years to dispense with the Senior "Prom.," and to do all in their power to make the event a success.

The plan for a southern Union station on Kneeland Street to supplant those now used

by the Old Colony, New York and New England, Boston and Albany and Providence Companies will, when carried through, affect materially some of the Institute property. Under this scheme the Providence tracks will be done away with from the point where they cross the Boston and Albany to their present terminus. The unpleasant jarring of Engineering and Architectural buildings by the trains will be obviated, and if Clarendon Street is prolonged to Columbus Avenue the value of the land on which the Grundmann studios stand, and which belongs to Technology, will be increased. A new station is to be built on Dartmouth Street, which will not prove less convenient than the present stopping-places on Huntington and Columbus Avenues. On the other hand men coming in on the Old Colony will have to come from the foot of Summer Street, a longer distance than at present.

The Technology Glee, Banjo, and Mandolin Clubs, assisted by Chas. T. Grilley, reader, gave their annual concert at Music Hall, Masonic Temple, East Boston, on March 20th. The singing of the Glee Club was good, though some of the selections might have been improved upon. The Mandolin Club gave its usual fine work and deserves great praise. The new men on the club are doing well and will doubtless prove of great help, though it is unfortunate that there is such a lack of guitars. The duet between Mr. Barber, '98, and Mr. Jameson, '96, was much enjoyed. Mr. Grilley received several recalls, the audience becoming enthusiastic over several of his impersonations. The programmes were made up for souvenirs of the occasion, containing, besides the programme, the pictures of the different clubs. After the concert the Clubs were tendered a reception and a dance. The whole affair was in charge of Messrs. Coombs, Alexander, and Whitten, all of '98. Many of the men remained at the dance until a late hour. It is only to be hoped that the affair was as successful financially as it was socially.



Dartmouth will not send a relay team to the Philadelphia meet on April 25th.

Cornell and the University of Pennsylvania will hold an athletic meet May 9th at Ithaca.

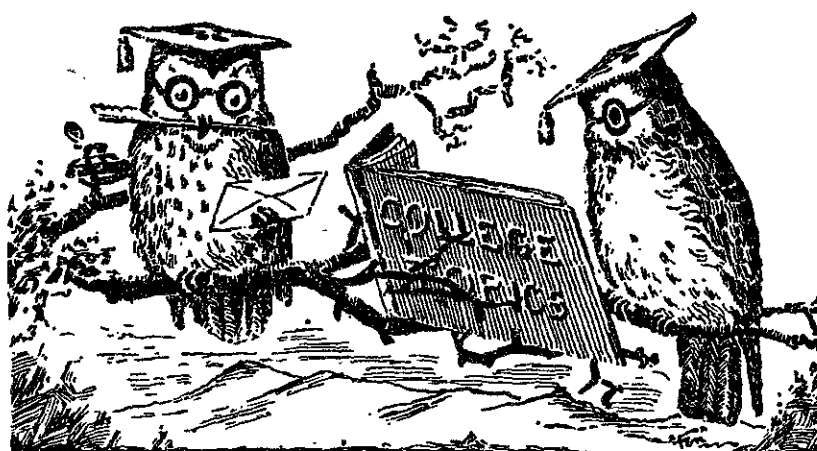
The Executive Committee of the Tennis Association has made a contract with Mr. Morrill, of Wright and Ditson's, to build three clay courts behind the Architectural Building. The work will be completed before the thirteenth.

Besides the ordinary team races, in which each man runs 440 yards, the University of Pennsylvania Athletic Association will introduce at its meet a 5-mile relay race in which each man will run a mile. This event has been made an open one, and it is probable that other teams will compete with Yale and U. of P. whose entries have already been received.

Alumni Notes.

Henry G. Morse, president of the Edgemoor Bridge Company, visited the Civil Engineering Department of the Institute one day last week. He examined the work of the students, and expressed himself as being very much pleased.

An interesting collection of the work of the colored students at Hampton and Tuskegee was on exhibition on Boylston Street last week. Mr. Robert Taylor, Course IV., '92, was in charge of the exhibit. Mr. Taylor is an instructor at Tuskegee and, with several other Institute men, spreads the influence of technical training in a direction where its effect in the future may be very great.



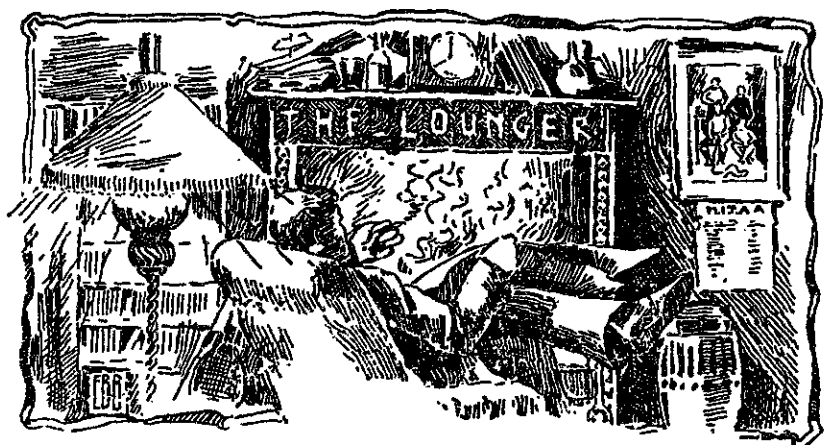
Plans have been drawn up for a library at Harvard to accommodate 1,500,000 volumes, with a possible capacity of 3,000,000.

Princeton's new Athletic Field is rapidly nearing completion. It will be the largest athletic field in the country, for on it will be laid out eight tennis courts and three baseball diamonds which in the fall will be converted into two football fields.

The annual Bowl Fight between the Sophomore and Freshman Classes of U. of P. was held March 20th and resulted in a draw. Judging by the account of the fight given by the *Pennsylvanian* our own lower classes may congratulate themselves that we still hold to the gentle pastime of Cane Rushing!

The trustees of Cornell University have decided to establish a college of Architecture, offering the degree of Bachelor of Architecture at the end of a four years' course, a degree hitherto not conferred in America. Andrew D. White, '53, and William H. Sage, '65, are on the committee in charge of this matter.

Preliminary contests were held at Athens on Saturday, March 21st, to select champions to represent Greece in the Olympic games. The time of the winner of the twenty-five mile race from Marathon to Athens, over a rough road, was three hours and eighteen seconds. The winner's record in throwing the discus, weighing two kilogrammes, was twenty-nine metres.



THE fertile oasis of Junior Week approaches, and the Lounger hastens to welcome it with his usual eagerness, for he is always avid in greeting periods of more than ordinary relaxation from his arduous toils. The Glee Club, crowned with victorious laurel, and the Banjo aggregation, thirsting to avenge past defeat upon a new and unsuspecting audience, open the round of dazzling gayety. Then follows the Junior Prom. to which the Lounger received an invitation couched in terms which would have been gratifying to his vanity had he not discovered in the last number of THE TECH a public notice that tickets were procurable by all more experienced than the humble Freshman, providing only that they be prepared to yield the five modest plunks. The next afternoon witnesses THE TECH Tea, an affair to be of extreme magnificence this year. The whole of the surplus profits accruing to the Board of Editors from the sale of the special '98 number are to be devoted to the purchase of rare and beautiful hangings and upholstery. The Lounger, too, will contribute a sum sufficient to supply light refreshment to those who do not bring their own. At both the Prom. and the Tea the Lounger will, of course, miss no opportunity to murmur sweet nothings in the ear of Beauty, though preserving his usual strict incognito. On Friday night the gayeties close with the Walker plays, which, from sundry hints, appear to be of a character likely to prove extremely popular. Dire rumors of character parts, bloomers and local hits are rife, and evidently the Course IX. man's training in political economy and study of the law of averages have provided against failure through the maintenance of a too severely classic standard.

The absence of any respite from the round of recitations during next week is to be deplored. The three days of vacation in the second term have been ingeniously arranged for the 20th, 21st, and 22d of

April, in order to include the new legal holiday, Forefather's Day. Otherwise the unfortunate student, already overburdened with holidays, would have an extra one which might prove utterly destructive of the high standard of work hitherto maintained at the Institute. It would have been still better, perhaps, if these three holidays could have been made to fall on three consecutive Sundays, in which case no time from recitations need have been lost at all.

The numerous examples of posterial art which have of late embellished the corridors of Rogers, are signs of an increasing hold of the beautiful upon the dull heart of the Technology grind. They are also signs of THE TECH, "Technique" and the English plays. Such decorations are instructive and improving; but they may be carried too far. (One, for instance, was taken off THE TECH board recently and carried entirely away.) One day the Lounger noticed a dense throng about the bulletin of the Walker Club plays, and, hastening up to investigate the matter, came away with a roseate blush suffusing his manly brow. Excluding, however, the manifest indecency of this particular specimen, the system of poster advertising is a worthy one, and the Lounger looks soon to see the more enterprising Profs attract tardy students to their lectures by this means.

Every Wednesday and Friday at intervals from nine to ten old Rogers is shaken to its foundations by roars of tumultuous applause. This need occasion no further alarm to the denizens of the Brunswick or the bookworms in the Public Library. It is but one manifestation of the exceeding popularity of a distinguished lecturer. Such adulation must stir the hearts of the remainder of the corps of instruction with unholy envy. Why, then, do they not pursue a similar course, and gain like reward? A pertinent anecdote, an apt quotation, a toothsome jest would come in wondrous well in the depth of a discourse upon Heat or Optics. A just proportion of humor and of lecture, say 1:1 in alternate layers of three minutes' thickness each would be a wondrous assistance in the sometimes irksome task of keeping Somnus under due control.

The Lounger notices with concern that he has omitted a very important factor in the foregoing enumeration of the joys of Junior Week. A book called "Technique," of exceeding interest, is to be issued, so the Lounger hears, by the Class of '97.



CASTLES IN SPAIN.

When the purple flush of the sunset haze
Broods over the pathless fields of foam,
While To-day is joining the Yesterdays,
I tarry, and watch the ships come home.

And that one, far in the eastern sea,
Whose sails in the sunlight are cloth of gold,
Is mine, is mine, and coming to me,
Bringing me joy and wealth untold.

Those gilded crests on the crimson plain,
That flushes the eastern sky with light,
I know they are towers of my castle in Spain,
And my ship is coming, is coming to-night.

But the sails grow white in the gathering gloom.
The wineland dulls to sodden clouds,
The day lies dead in its white mist shrouds;
"To-morrow," I whisper, "my ship will come."

—Yale Courier

"SOMETHING."

When you tell me there is "something"
That makes one glad at heart,
That makes one try to get you
This "something" to impart;

When you tell me that this "something"
Just fills your soul with bliss,
I know this "something" must be
From your lips, a dainty kiss.

—Polytechnic.

MEETING.

With many a sigh and locked embrace
They met though some strange wonder
Ne'er had they met this way before—
Now scarcely torn asunder.

They rose to part; she shed a tear.
Though varied were the rumors,
His wheel had struck that of the girl,
Who was trying her new bloomers.

—University Courier.

IN THE FIREPLACE.

The red flame dances with ghoulis glee
Over the embers of what has been
The majestic king of the forest green,
And gnaws at the heart of the great oak tree.

—The Lotus.

MY VALENTINE.

I sent to her a valentine
With love expressed in every line,
For, as I wrote, her darling face
Arose from that most sacred place
Where it, from worldly thing apart,
Is kept concealed within my heart.

And now, with throbbing heart, she takes
And reads the words her lover makes
Describe his wound from Cupid's shot—
While I must mourn and wail my lot;
For, oh! alas! the valentine
That she doth read—it is not mine!

—Columbia Spectator

A SKATING SONG.

Swinging I glide down the frozen tide,
Where the wild north winds are blowing;
The ice flakes reel
From my flying steel,
Swiftly I bound o'er the cracking sound,
In the starlight distant glowing.

Surges the blood in a merry flood,
To the rush my heart is bending;
My skate-points rip
In the Frost King's nip;
Oh, that the earth had an ice-bound girth,
And old Winter knew no ending!

—Harvard Advocate.

THE REPORTORIAL PUFF.

Daughter dear, now how is this;
You shocked me by the sight;
Why did you that reporter kiss
Who wrote the ball last night?

Mamma dear, my reason's this:
You told me long ago
To always give a smile and kiss
When I received a "blow."

—Bowdoin Orient.

THE PASSING OF THE WIND.

In harvest-time, with gentle crooning
Amid the pines and beechwood trees,
Like some ethereal harp a-tuning,
Gently filters the summer breeze.

It tells the brook of the sea beyond,
And whispers low to the daffodil;
It rustles in the reeds by the pond,
Then hurries away up the wooded hill.

And when the year is slowly dying,
The geese o'erhead in honking haste,
Hear the wild wind in their southward flying,
Sweeping o'er valley and mountain waste.

—Harvard Advocate.



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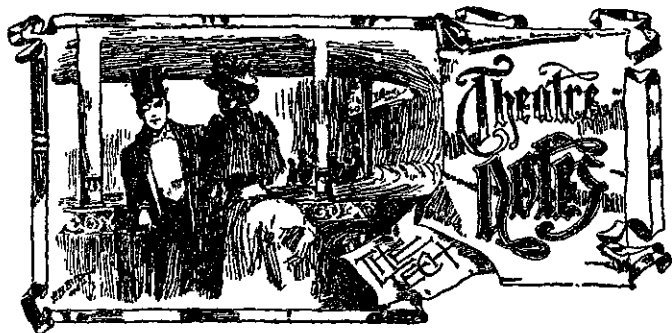
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Castle Square Theatre.—"Lucia di Lammermoor" will continue to crowd this fascinating opera house, where opera has taken up a permanent abode. The season of grand opera has been a tremendous success, and Mlle. Fatmah Diard filled the role of Lucia to the entire satisfaction of the most severe critics, and our regular favorites, Wolf, Murray and Persse, deserve fresh laurels for their wonderful versatility.

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Hollis Street Theatre.—Mr. Crane has been delighting the crowded audiences which greeted him nightly at the Hollis Theatre, and next week we are to have "The Kentucky Colonel," which, like all of Mr. Crane's plays, is full of action and up-to-date topics of interest. You will always get the latest phase of political life in Crane's plays, and young political aspirants can't afford to miss him.

Boston Museum.—Duse will make her appearance at the Boston Museum April 6th. Duse's fame has preceded her, although during her visit to America she appeared in few cities only. Duse has achieved great success throughout Europe, where triumph followed triumph and critics vied with each other in praising her marvelous dramatic instinct, her versatility and her artistic sincerity. She will undoubtedly receive an ovation in Boston.

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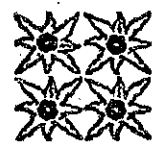
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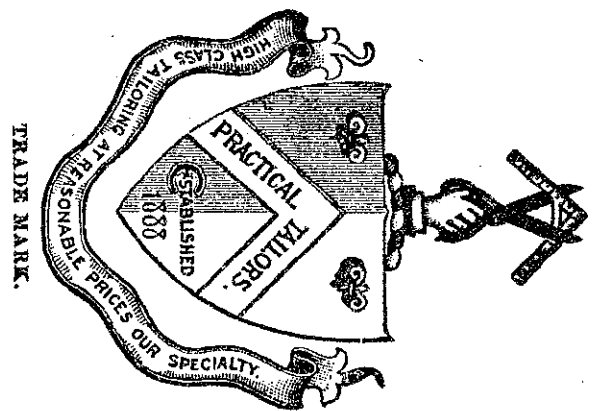
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